

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	09/583,747	SEXTON, HARLAN
	Examiner Qamrun Nahar	Art Unit 2191

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the appeal brief filed on 9/7/04.
2.  The allowed claim(s) is/are 1-4, 6-8, 10-13, 15-17 and 19-22 are allowed, renumbered 1-18.
3.  The drawings filed on 31 January 2003 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

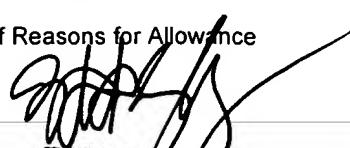
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.



TODD INGBORG  
PRIMARY EXAMINER

**DETAILED ACTION**

1. This action is in response to the appeal brief filed on 9/7/04.
2. The rejection under 35 U.S.C. 102 (b) as being anticipated by Arsenault (U.S 5,408,650) to claims 1-18 is withdrawn in view of applicant's remarks/arguments and Examiner's Amendment below.
3. The rejection under 35 U.S.C. 103(a) as being unpatentable over Arsenault (U.S 5,408,650) in view of Elliott (U.S. 4,945,474) to claims 19-22 is withdrawn in view of applicant's remarks/arguments and Examiner's Amendment below.
4. Claims 5, 9, 14 and 18 have been canceled, see Examiner's Amendment below.
5. Claims 1, 6, 10 and 15 have been amended, see Examiner's Amendment below.
6. Claims 1-4, 6-8, 10-13, 15-17 and 19-22 are pending.
7. Claims 1-4, 6-8, 10-13, 15-17 and 19-22 are allowed, renumbered 1-18.

**EXAMINER'S AMENDMENT**

8. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen C. Carlson (Reg. No. 39,929) on April 18, 2005.

The application has been amended as follows:

**In the Claims:**

1. (Currently Amended) A method for analyzing a program, comprising the steps of:  
logging a plurality of stack traces and respective tags in a log file at respective points during  
execution of the program; and  
recording within the log file one or more of the tags as one or more marked tags, wherein the  
tags indicate respective addresses of allocated objects; and  
the one or more marked tags indicate one or more respective addresses of migrated objects.

5. (Canceled)

6. (Currently Amended) A method for producing a diagnostic report for a program, comprising  
the steps of:  
accessing a log file comprising a list of stack traces and respective tags at associated points  
during execution of the program and comprising one or more marked tags; and  
producing the diagnostic report based on the log file, wherein the tags indicate respective  
addresses of allocated objects; and  
the one or more marked tags indicate one or more respective addresses of migrated objects.

9. (Canceled)

10. (Currently Amended) A computer-readable medium bearing instructions for analyzing a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program; and

recording within the log file one or more of the tags as one or more marked tags, wherein the tags indicate respective addresses of allocated objects; and  
the one or more marked tags indicate one or more respective addresses of migrated objects.

14. (Canceled)

15. (Currently Amended) A computer-readable medium bearing instructions for producing a diagnostic report for a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

accessing a log file comprising a list of stack traces and respective tags at associated points during execution of the program and comprising one or more marked tags; and producing the diagnostic report based on the log file, wherein the tags indicate respective addresses of allocated objects; and

the one or more marked tags indicate one or more respective addresses of migrated objects.

18. (Canceled)

- END -

### **REASONS FOR ALLOWANCE**

9. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, the tags indicate respective addresses of allocated objects; and the one or more marked tags indicate one or more respective addresses of migrated objects as recited in independent claims 1, 6, 10 and 15.

The closest cited prior arts, the combination of Arsenault (U.S 5,408,650) and Elliott (U.S. 4,945,474) teaches a method for analyzing a program comprising logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program. However, the combination of Arsenault (U.S 5,408,650) and Elliott (U.S. 4,945,474) fails to teach the tags indicate respective addresses of allocated objects; and the one or more marked tags indicate one or more respective addresses of migrated objects as recited in independent claims 1, 6, 10 and 15; and as pointed out by the applicant's remarks/arguments on pg 4, par. 3 to pg. 6, par. 2 of the appeal brief filed on 9/7/04.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

10. Any inquiry concerning this communication from the examiner should be directed to Qamrun Nahar whose telephone number is (571) 272-3730. The examiner can normally be reached on Mondays through Fridays from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam, can be reached on (571) 272-3695. The fax phone number for the organization where this application or processing is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Qamrun Nahar  
April 19, 2005



TODD INGBERG  
PRIMARY EXAMINER